

# DIFFERENTIAL PHOTOELECTRIC RECEIVER CIRCUIT

## Abstract of Disclosure

A photoelectric receiver circuit for converting an optical signal to an electrical signal, includes first and second transimpedance amplifiers, a photodiode having a first end connected to an inverting input of the first transimpedance amplifier and a second end connected to an inverting input of the second transimpedance amplifier, and a differential amplifier having inputs AC coupled to outputs of the first and second transimpedance amplifiers. Such that when higher and lower voltages are respectively applied to the non-inverting inputs of the first and second transimpedance amplifiers, a substantially constant bias voltage is maintained on the photodiode.

## Figures